

REMARKS

Claims 1-4, 7-10, 13, 15 and 16 are amended. Claims 5, 6, 11, 12, 14 and 17-20 are cancelled. New claims 21-27 are added.

Upon entry of the amendment, independent claim 1 with claims 2-4 and 7 depending therefrom, independent claim 8 with claims 9, 10, 13, 15 and 16 depending therefrom, and independent claim 21 with claims 22-27 depending therefrom are presented for consideration by the Examiner.

Claims 1 and 8 are amended to emphasize structural relationships between the arrays of LEDs and the support that produce particular predetermined light distribution patterns from the claimed position lights.

Claim 1 recites in pertinent part as follows:

An aircraft position light comprising:
a support comprising adjacent, substantially planar surfaces defining a reentrant angle, said support defining an interior angle between said planar surfaces, measured within said support, greater than 180°;
a plurality of LEDs mounted to each said planar surface; and
a circuit for energizing said LEDs,
wherein said LEDs produce light when energized in a pattern subtending an obtuse angle centered on a line bisecting said reentrant angle.

Claim 8 recites in pertinent part as follows:

An aircraft position light comprising:
two substantially planar elongate PC boards;
a linear array of LEDs mounted to each said PC board, each said LED having an optical axis, the optical axes of each said linear array collectively defining a direction of light transmission for each linear array;
and
a circuit for simultaneously energizing said LEDs,
wherein said LEDs produce light when energized, said PC boards supported so that said linear arrays are substantially parallel and the direction of light transmission of said linear arrays intersect at an angle of approximately 90°.

Claims 1 and 8 were rejected as anticipated or obvious over U.S. Patent No. 6,523,976, either alone or in combination with U.S. Patent No. 6,669,357. The cited references do not disclose, teach or suggest the features recited in amended claims 1 and 8, either alone or in combination.

Claims 2-4 and 7 depend directly from claim 1 and are patentable for at least the reasons stated in support of claim 1. Claims 2-4 and 7 recite further specific structural limitations that are not disclosed, taught or suggested by the Examiner's proposed combination.

Claims 9, 10, 13, 15 and 16 depend directly or indirectly from claim 8 and are patentable for at least the reasons stated in support of claim 8. Claims 9, 10, 13, 15 and 16 recite further structural limitations and functional relationships not disclosed, taught or suggested by the Examiner's proposed combination. Claims 9, 10, 13, 15 and 16 are patentable for at least these additional reasons.

New claim 21 recites in pertinent part as follows:

21. (new) An aircraft position light comprising:
a support defining two substantially planar surfaces adjacent to each other along one edge, said surfaces defining an included angle of less than 180°;
a substantially planar, thermally conductive PC board mounted in thermally conductive relationship to each said planar surface,
a plurality of LEDs mounted to each said PC board, each said LED having an optical axis, the optical axes of said plurality of LEDs collectively defining a direction of light transmission for each said plurality of LEDs;
wherein the direction of light transmission of one said plurality of LEDs intersect the direction of light transmission of the other said plurality of LEDs.

Claim 21 recites structural limitations not disclosed, taught or suggested by the Examiner's proposed combination. In particular, claim 21 recites a structure for the support and a particular relationship between the direction of light transmission of one recited plurality of LEDs and the other recited plurality of LEDs. The Examiner's proposed combination does not disclose, teach or suggest the recited support structure

or the recited relationship between the direction of light transmission of the respective pluralities of LEDs. Claim 21 is patentable over the Examiner's proposed combination for at least these reasons.

Claims 22-27 depend directly or indirectly from claim 21 and are patentable for at least the reasons stated in support of claim 21.

Claims 22-27 recite further structural limitations and functional relationships that are not disclosed, taught or suggested by the Examiner's proposed combination.

For example, claim 22 recites "wherein said included angle is 90°." The included angle is defined between planer surfaces on the support. Neither reference cited by the Examiner disclose, teach or suggest this limitation. Claim 22 is patentable for at least this additional reason.

Claim 24 recites in pertinent part "the direction of transmission of one said plurality of LEDs intersect the direction of light transmission of the other said plurality of LEDs at an angle of approximately 90°." Neither reference cited by the Examiner disclose, teach or suggest the limitations recited in claim 24. Claim 24 is patentable for at least this additional reason.

Claim 25 recites in pertinent part "wherein said LED's have a viewing angle and said viewing angle and said included angle result in a light radiation pattern from the position light extending over an arc of approximately 140° in a first plane perpendicular to a second plane bisecting said included angle." Claim 25 specifies a light radiation pattern from the claimed position light that is not disclosed, taught or suggested in the references cited by the Examiner. Claim 25 is patentable for at least this additional reason.

Claims 26 and 27 recite structures and resultant light radiation patterns that are not disclosed, taught or suggested in the cited prior art. Claim 26 recites in pertinent part "wherein said PC boards extend in a longitudinal direction and said support comprises a projection extending from a laterally outward edge of each said planar surface, said projection configured to block light from said LEDs, thereby providing an angular limit to a light radiation pattern produced by said position light in a plane

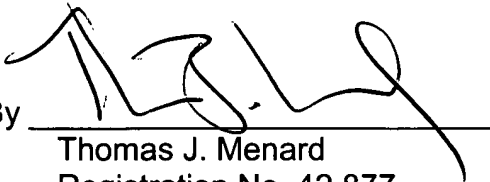
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perpendicular to said projections." Claim 26 recites a structure and functionality not disclosed, taught or suggested by the references cited by the Examiner.

For all the foregoing reasons, Applicant respectfully requests allowance of claims 1-4, 7-10, 13, 15, 15 and 21-27.

Respectfully submitted,

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